



China Ecological Footprint Report 2010

James P. Leape
Director General,
WWF International

Joint Policy Research
Beijing, 11 November 2010

Technical Partners:



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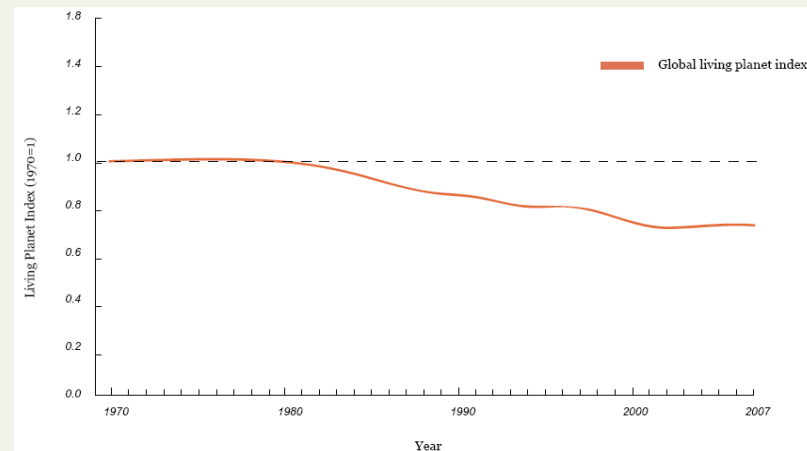
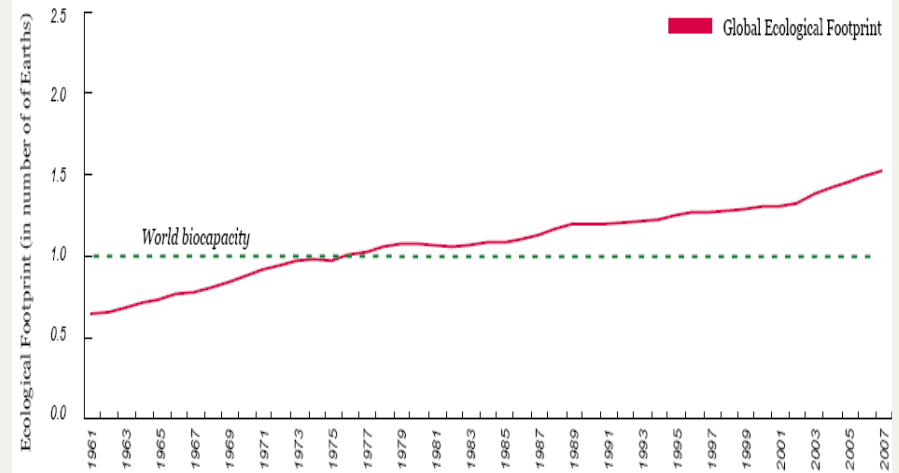
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Content

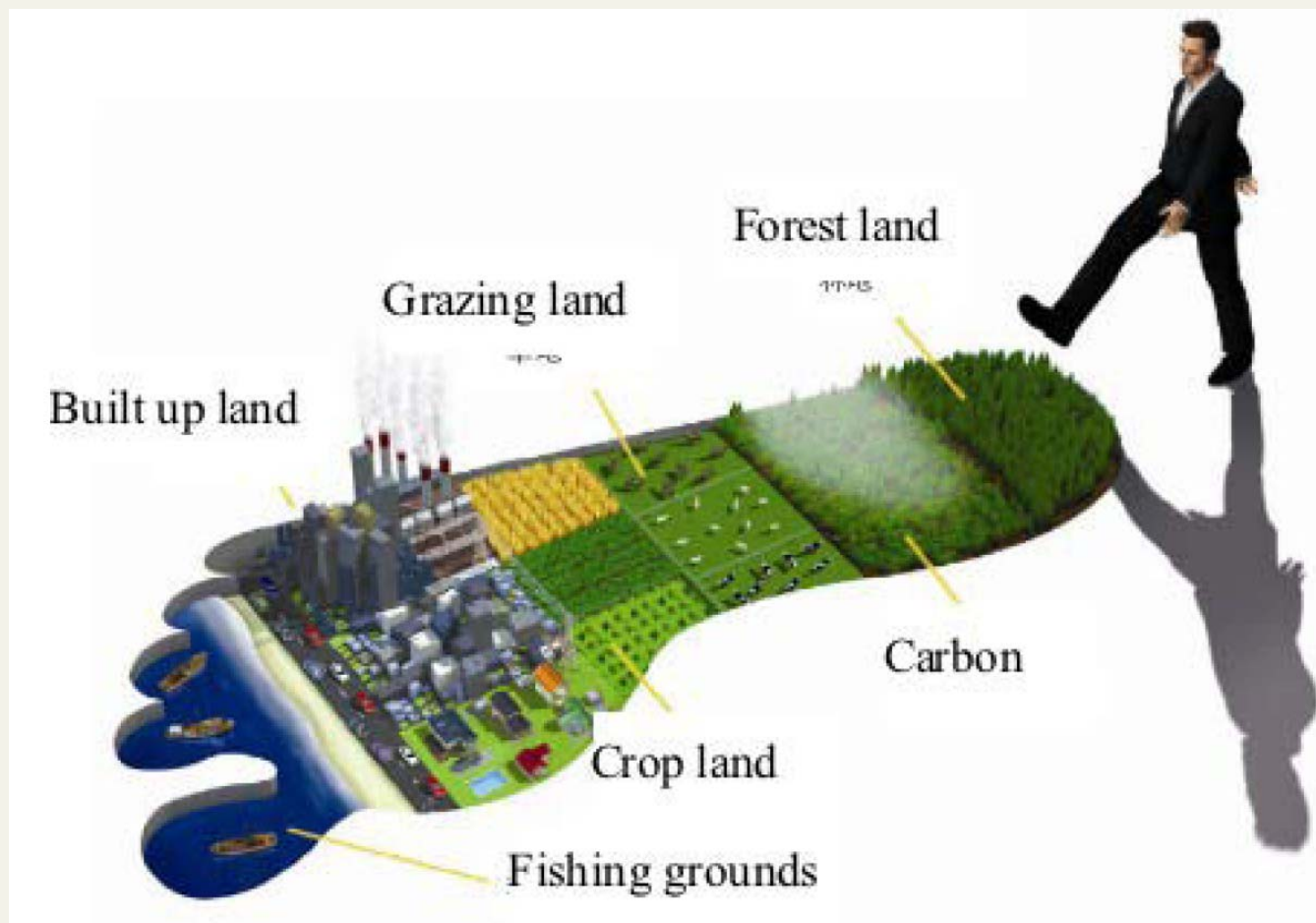
- Global Context
- Report Findings
- Policy Recommendations

State of the planet

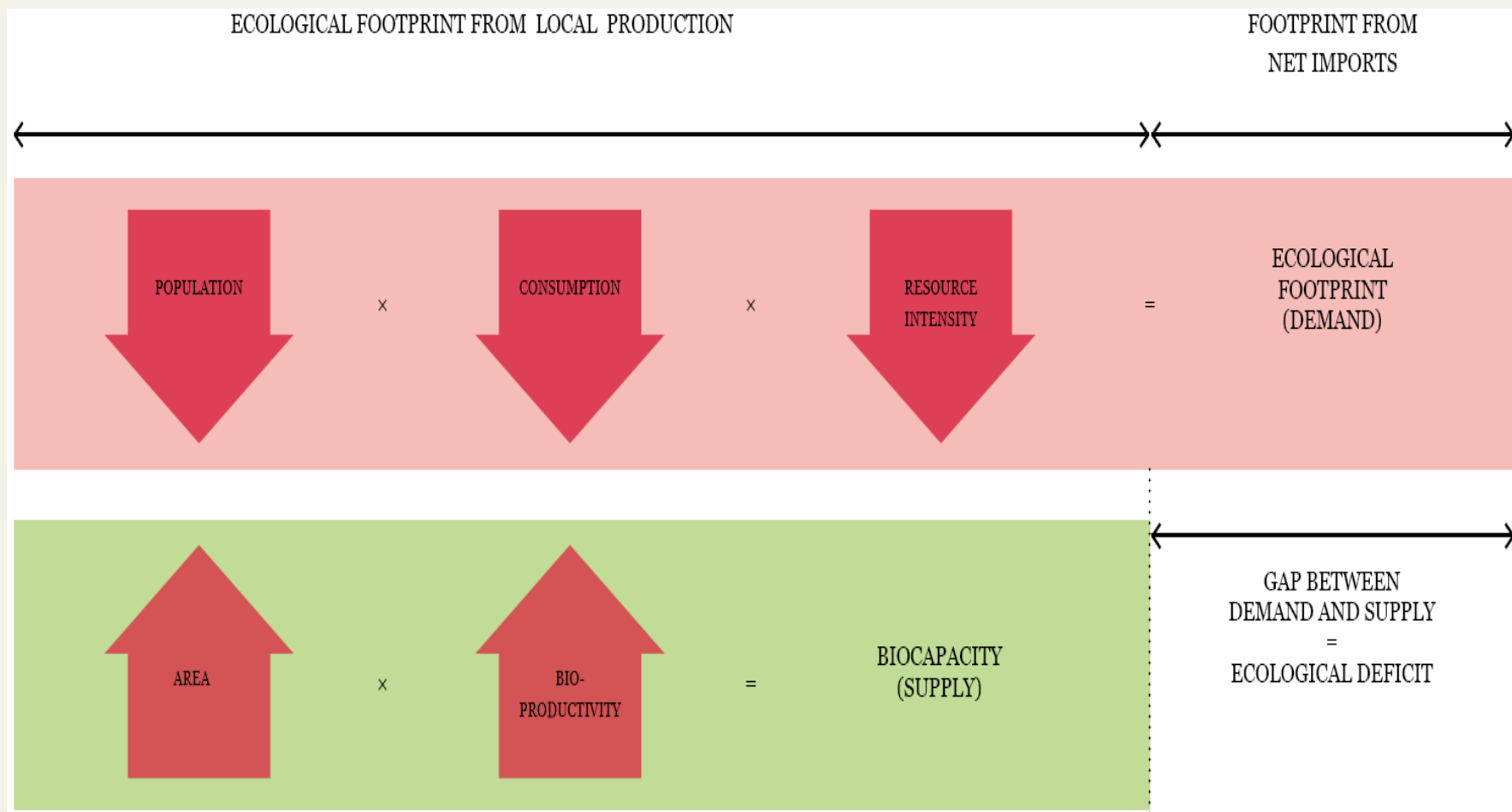
- Living Planet Index: 30% decline since 1970
- Global Ecological Footprint: +100% increase since 1966
- Humanity needs 1.5 Earths
 - global Ecological Footprint = 2.7 global hectares (gha) per capita
 - biocapacity = 1.8 gha per capita



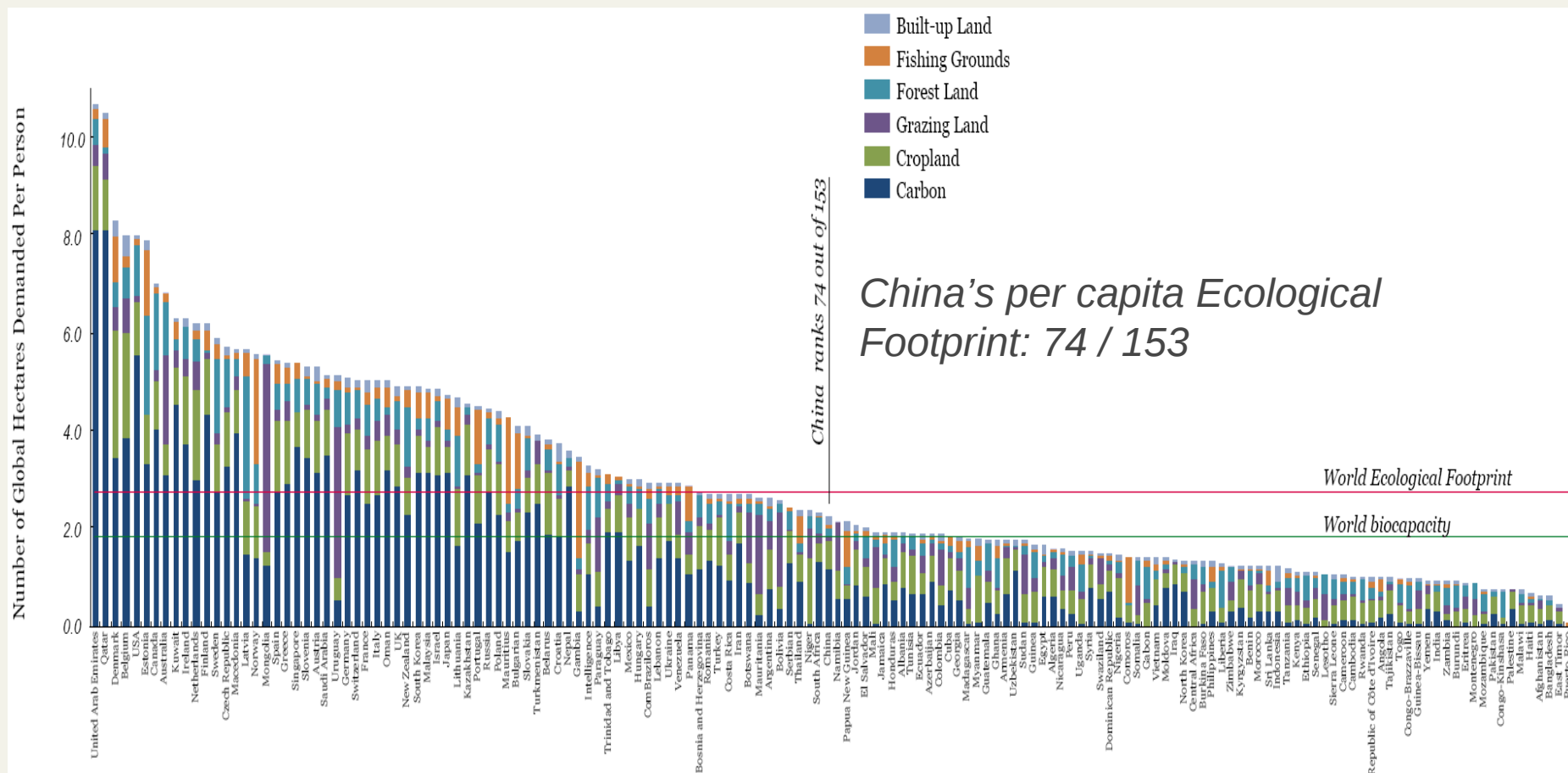
Ecological Footprint



Demand vs. Supply



China in the World



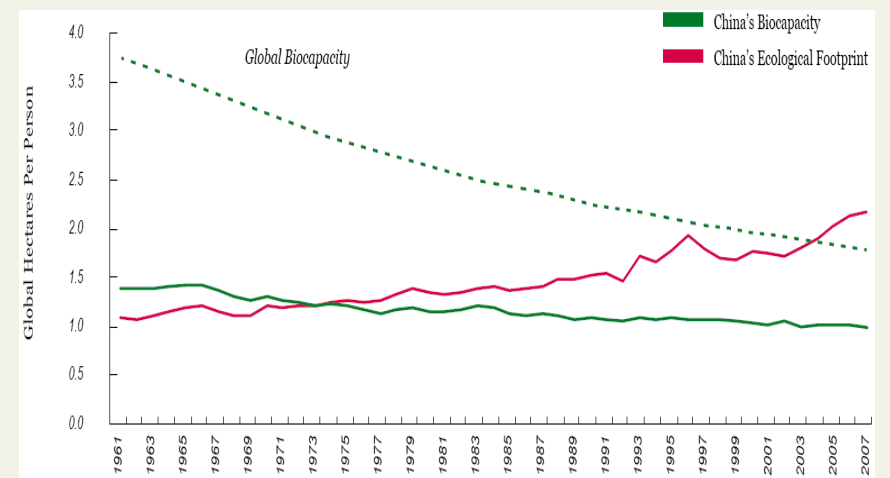
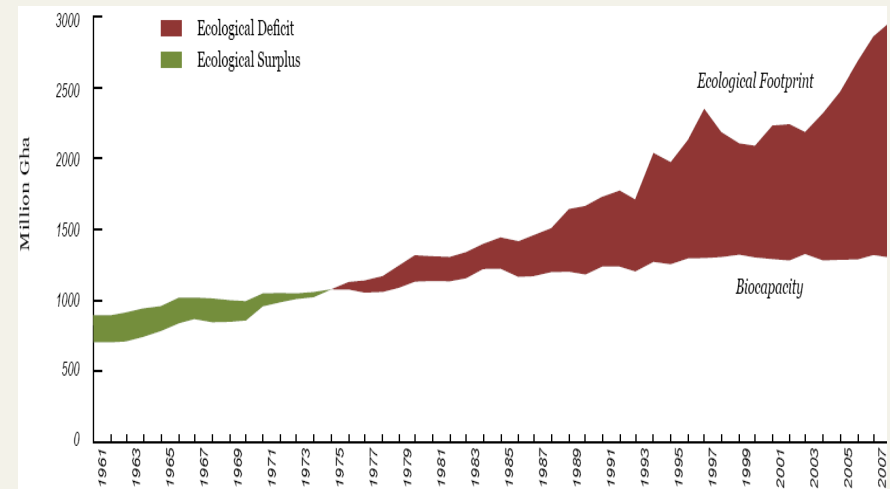


Key findings

China Ecological Footprint
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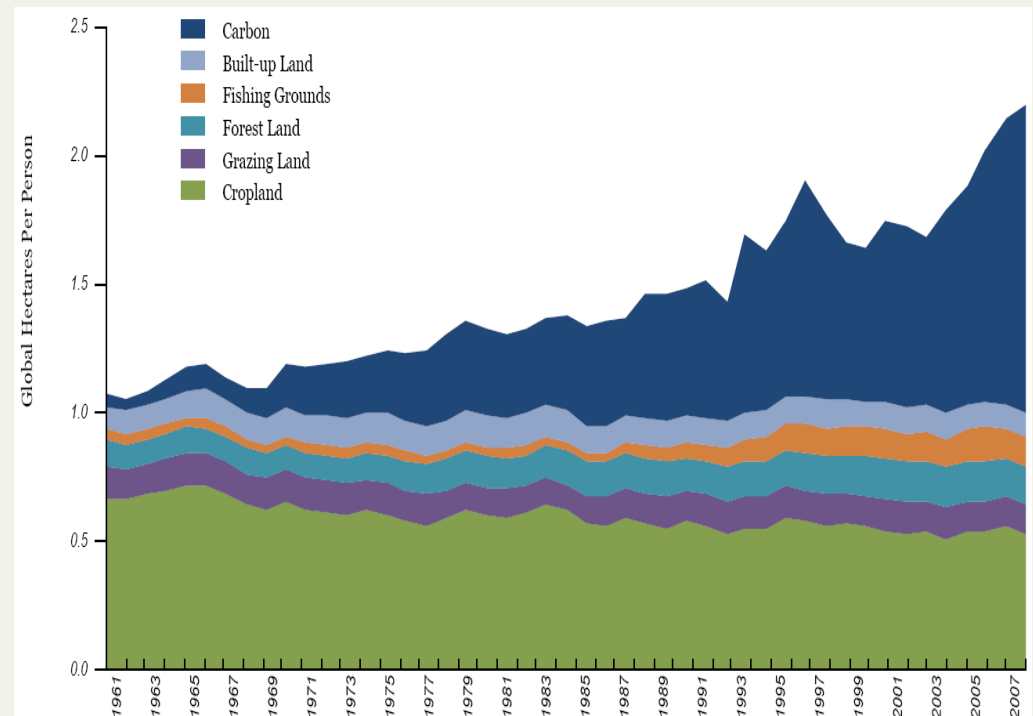
China vs. World

- In 2007 Ecological Footprint per capita in China = 2.2 gha < 2.7 gha global average, but 2.2 times of its biocapacity
- If everyone lived like a Chinese, humanity would need 1.2 Earths, while humanity as a whole is using 1.5 Earths
- In 2004 China exceeded sustainable level of biocapacity on a global scale, some 30 years after the global sustainability threshold was breached



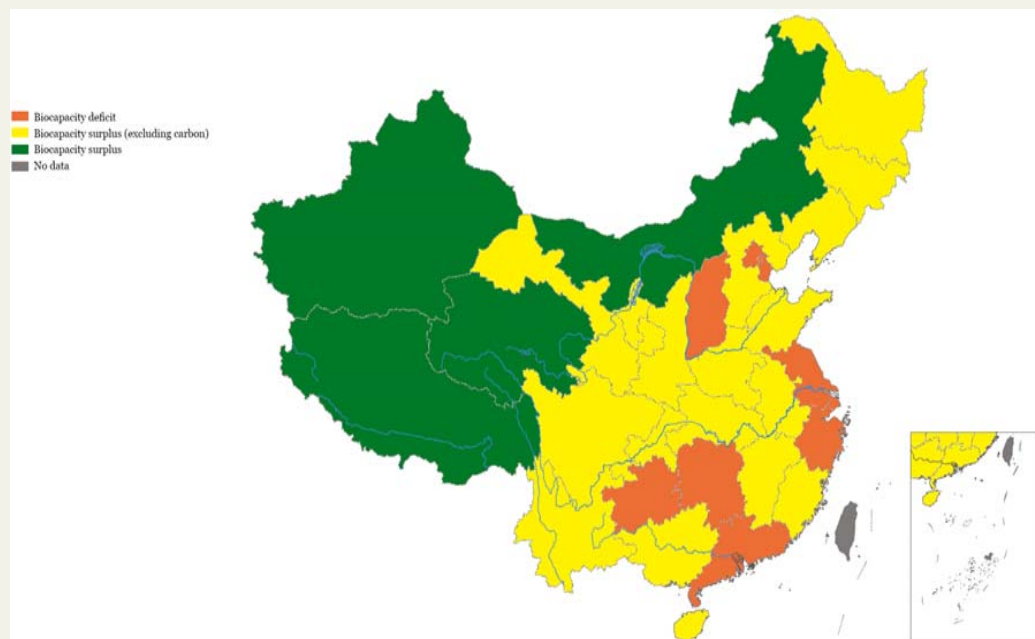
Footprint composition

- Carbon footprint vs. Ecological Footprint on per capita basis
 - largest component (54% of Ecological Footprint in 2007)
 - fastest growing component (in 2007 it was 22.9 times of 1961's)

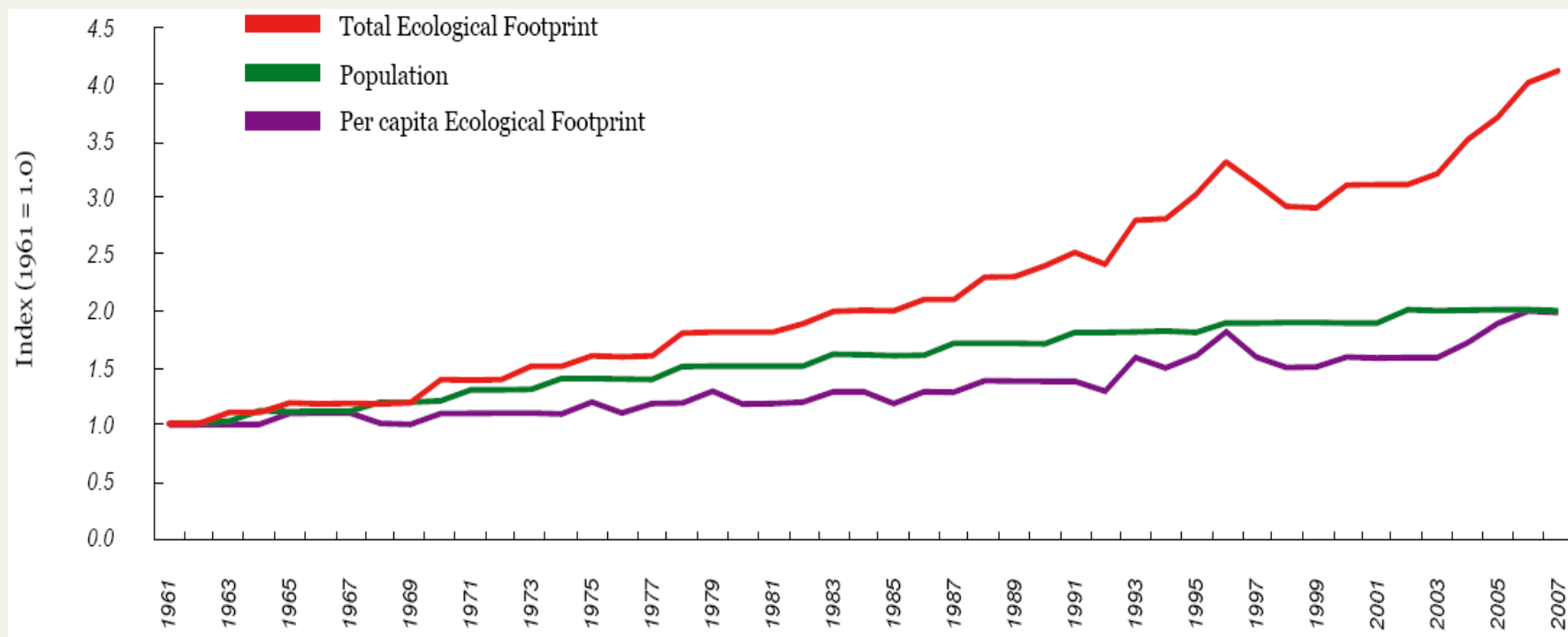


Footprint distribution

- 4 provinces with ecological surplus
- 30% of provinces with ecological deficit have absolute deficit and 70% relative deficit (lack sufficient carbon absorption land area while no deficit on land use types)
- Ecological Footprint and biocapacity unevenly distributed



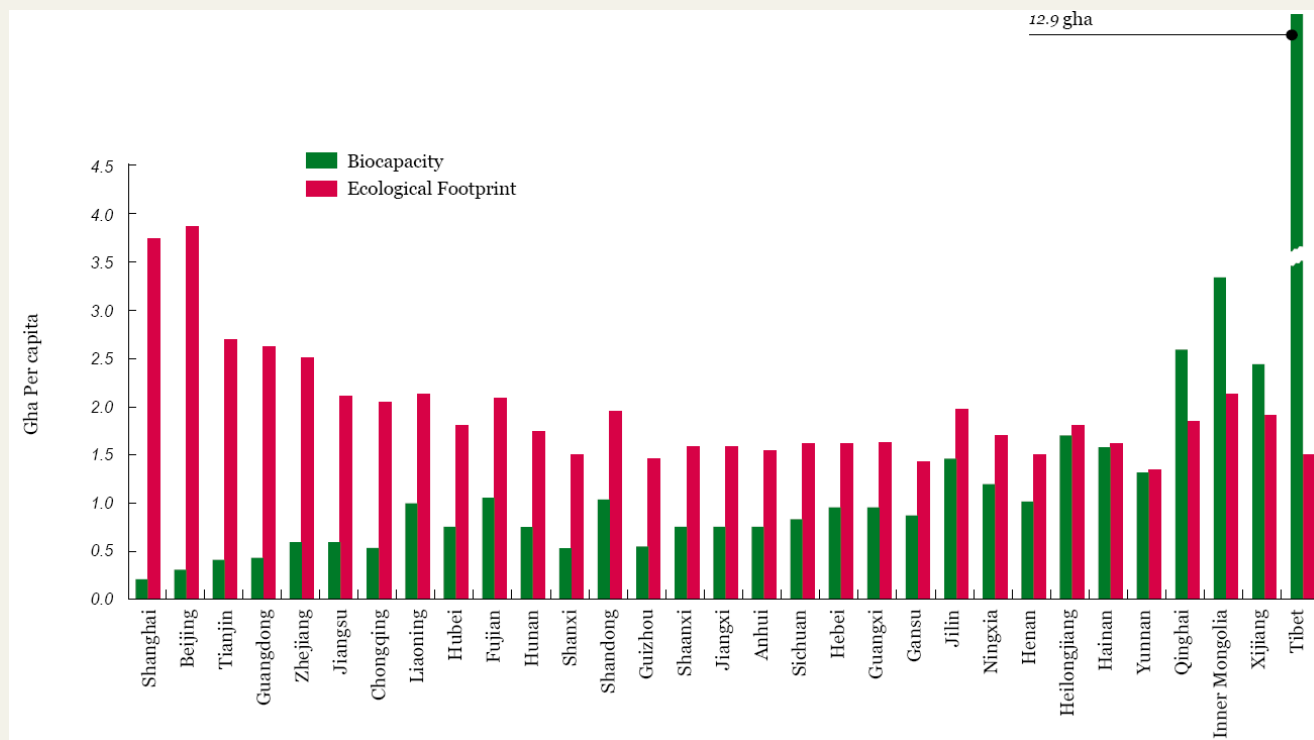
Footprint vs. Population



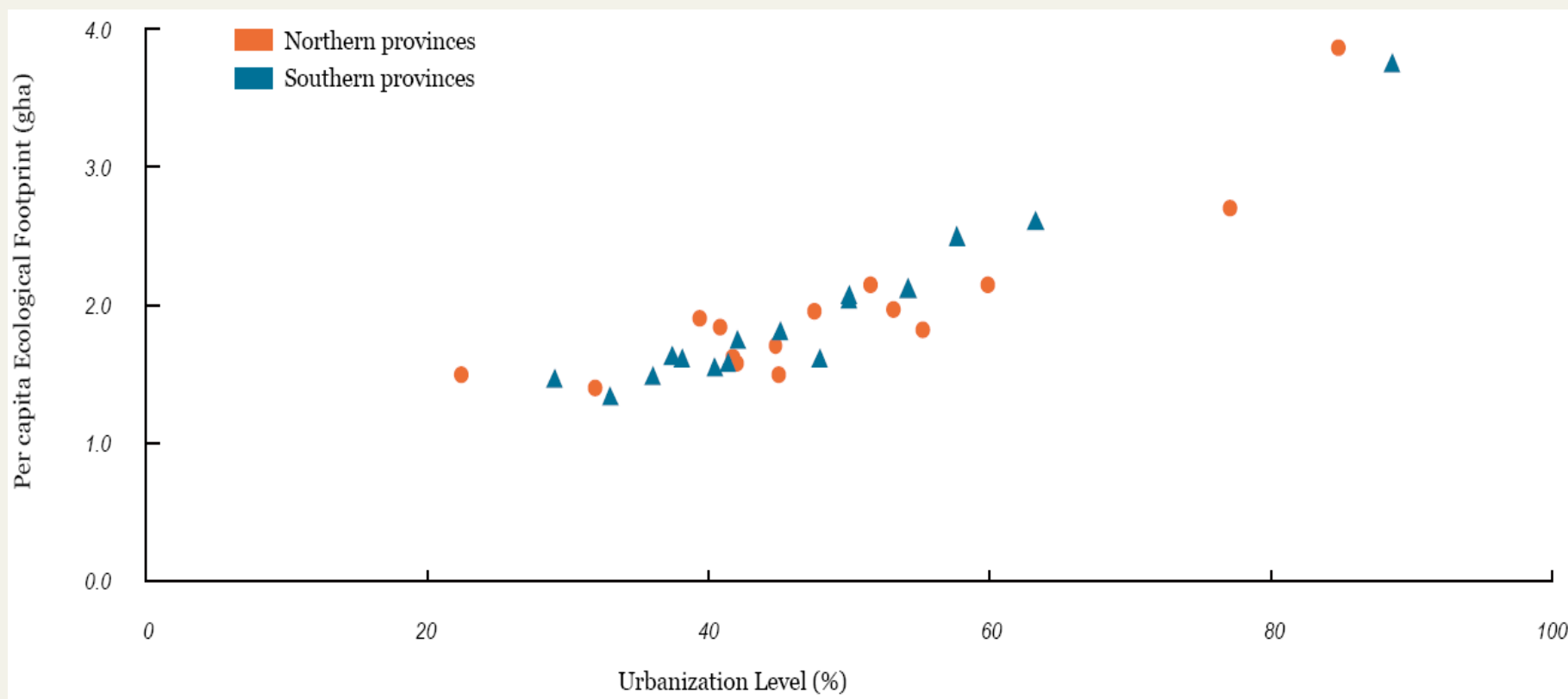
- Since 1961 both China's per person Ecological Footprint and population doubled = four-fold increase in total Ecological Footprint.

Footprint & Biocapacity in provinces

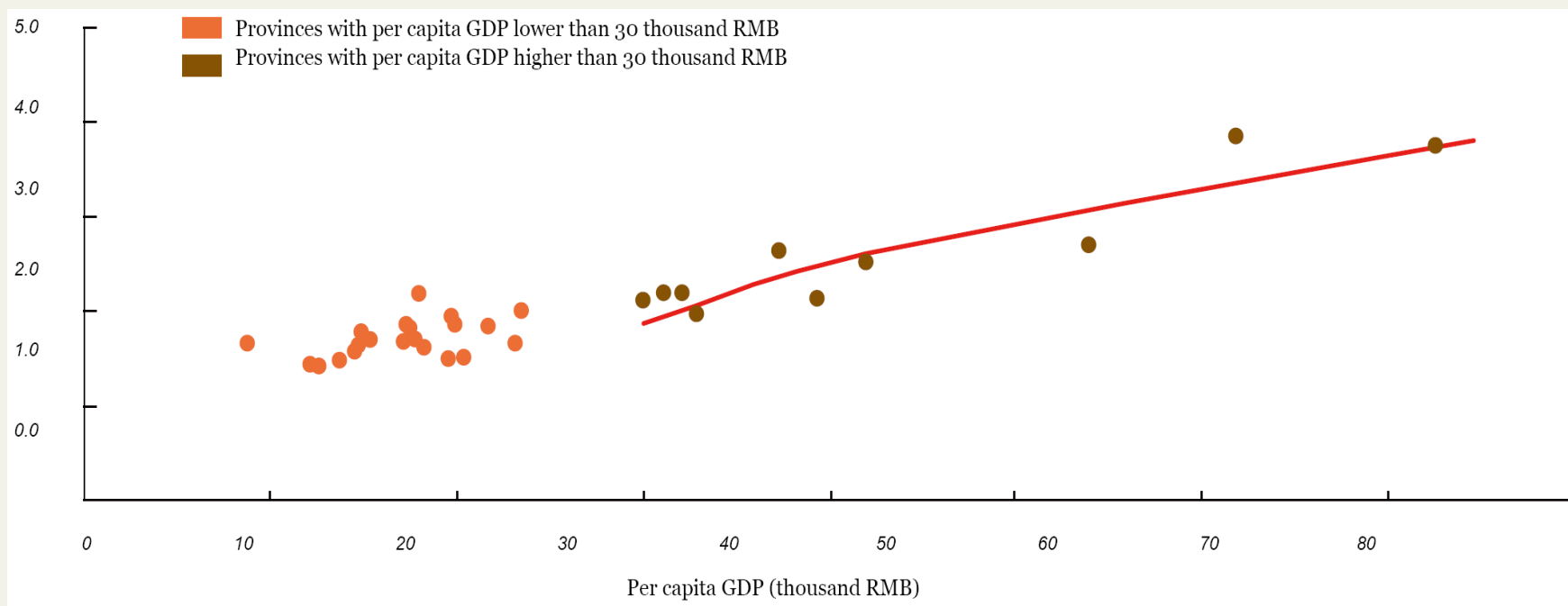
Top 5 provinces in terms of per capita ecological deficit in 2008: Shanghai, Beijing, Tianjin, Guangdong and Zhejiang.



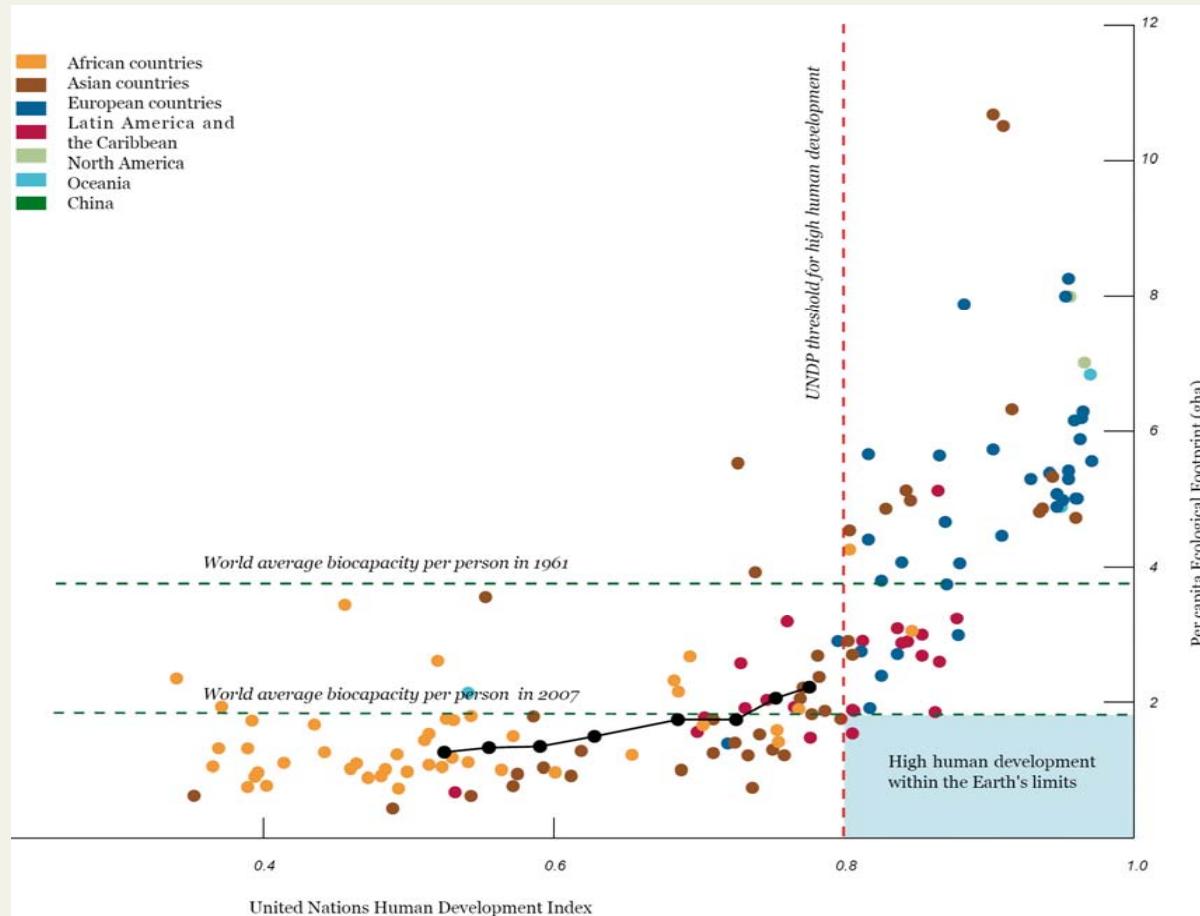
Footprint vs. Urbanization



Footprint vs. GDP

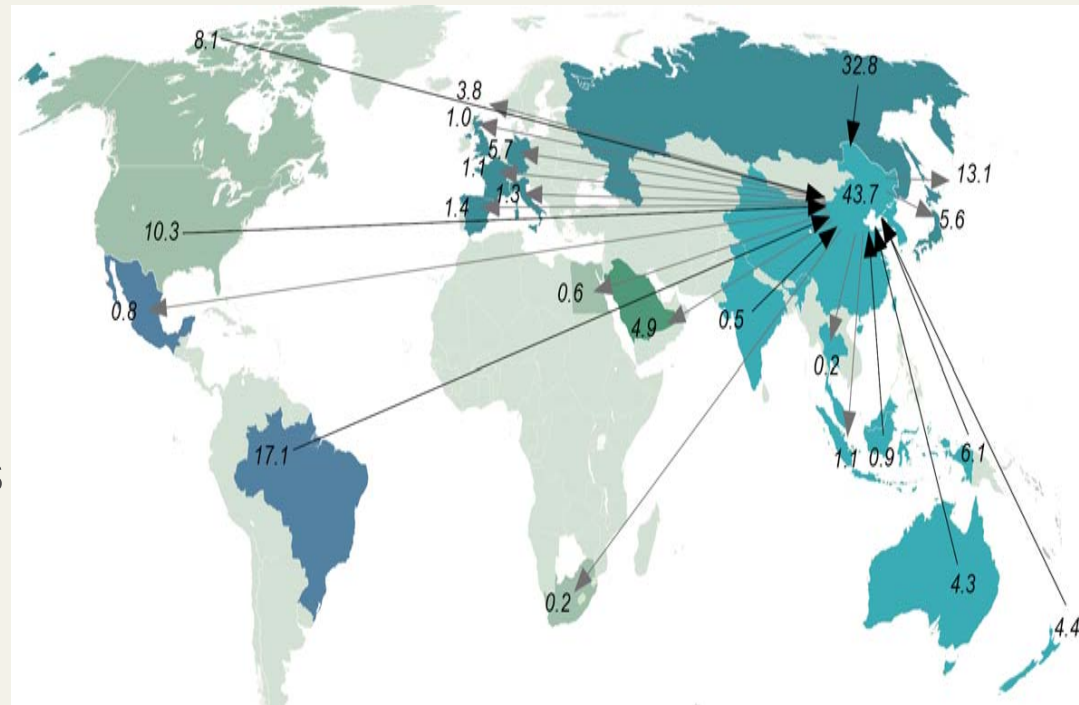


Footprint vs. Biocapacity and Human Development



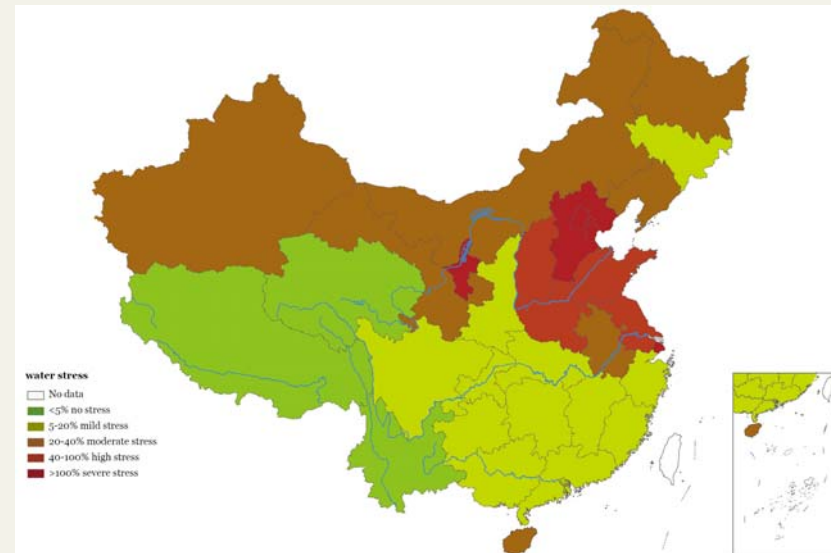
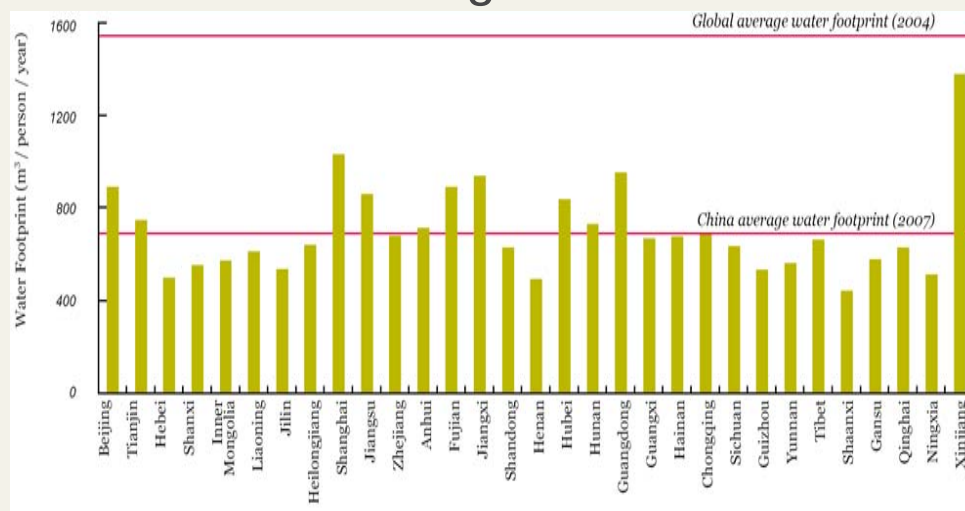
Biocapacity Flows

- Net importer of resource-use biocapacity
- Carbon embedded in export products
- Part of China's carbon emissions are due to products consumed in other countries



Water Footprint

- Water Footprint of Consumption per capita: 679 m³ /y (2007) = 43% of global level (2004)
- Large variation across provinces
- Water stress mainly in northern and central China and downstream of Yellow and Yangtze rivers.

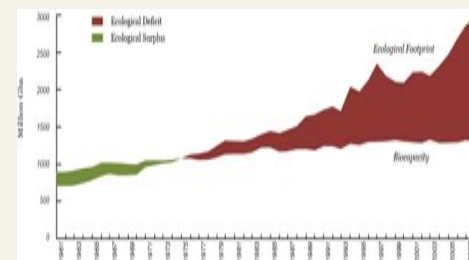




Policy Recommendations

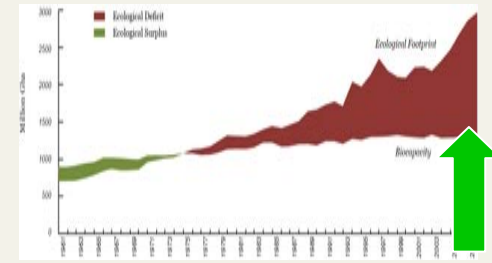
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1. Measure 'Ecological Civilization'



Use the relationship between Ecological Footprint and biocapacity as one of the key indicators of progress towards an 'ecological civilization'

2. Increase Biocapacity



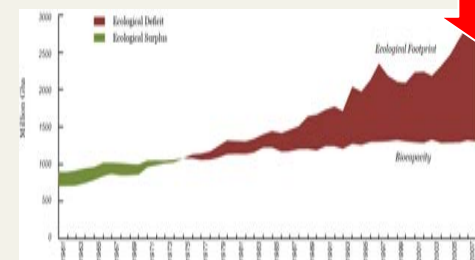
Strengthen ecosystem management and increase biocapacity

- Maintain healthy natural ecosystems for both human and other species, and preserve biologically productive lands
- Increase land productivity while leaving space for nature

3. Tackle carbon footprint

Reduce carbon footprint as a primary focus for decreasing ecological deficits

- Establish and promote a low carbon economy
- Focus on building low carbon cities/eco-cities in China's urbanization
- Promote sustainable consumption



4. Sustainable Trade for Footprint reduction

Reduce ecological deficits through resource allocation

- Formulate a domestic trade policy to encourage appropriate biocapacity flows.
 - Eco-compensation schemes
 - Energy/resource tax
 - ...
- Encourage international cooperation to promote sustainable trade flows & lessen ecological impacts on China and other countries



Thank you

James P. Leape, Director General, WWF International
11 November 2010

www.wwfchina.org

**Welcome to the Report launch event at
Hotel Novotel, November 15th at 13:30**

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